Alaska Injury Prevention Plan 2004

The Players

On November 15, 2003, the following injury prevention specialists graciously donated a Saturday afternoon to begin the strategic planning process that will ultimately result in an Alaska Injury Prevention Plan.

Facilitator

Rick Roberts, Alaska Native Tribal Health Consortium

Organizers

Helen Andon, Alaska Native Tribal Health Consortium Ryan Hill, Alaska Native Tribal Health Consortium Martha Moore, Alaska Department of Health and Social Services

Participants

Corliss Taylor, Fairbanks Safe Kids

Ward Jones, Bristol Bay Area Health Karen Lawfer, Juneau Safe Kids Corporation Gordon Glaser, Alaska Department of Health Mary Clark, Bristol Bay Area Health and Social Services Corporation Maria Bailey, Alaska Department of Health and Anita Bailor, Kodiak Island Area Native Social Services Zoann Murphy, Alaska Department of Health Association and Social Services Tom Fazzini, Yukon-Kuskokwim Health Corporation Mary Krom, Alaska Department of Health and Kelly McManus, South Central Health Social Services Corporation Alice Walters, Alaska Department of Health and Kathy O'Gara, Southeast Alaska Regional Social Services Deborah Choromanski, Alaska Department of Health Consortium Duffy Halliday, Norton Sound Health Health and Social Services Corporation Mark Johnson, Alaska Department of Health Alix Chartier, Seldovia Village Tribe and Social Services Peggy Hayashi, Alaska Safe Kids Marcia Rom, Alaska Injury Prevention Center Jane Fellman, Kenai Peninsula Safe Kids Sue Hargis, U.S. Coast Guard

The Process

Force field analysis is an analytical tool that clarifies opposing aspects of a desired change.

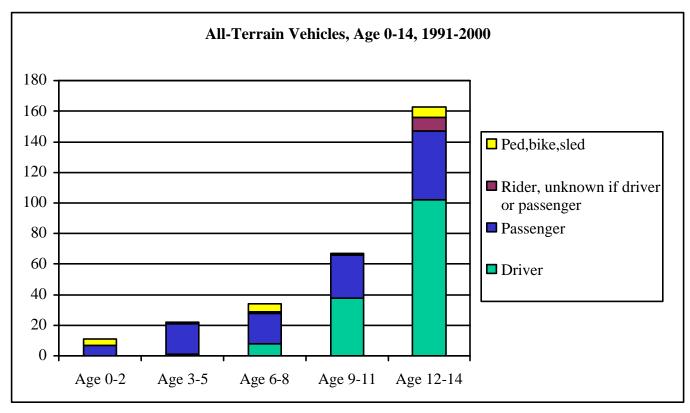
- Driving or positive forces that support an action or situation
- Restraining or negative forces that try to prevent it

When opposing forces are equal, no change can occur. When one set of forces becomes stronger than the other, change will occur. When all the forces have been considered, plans can be made that will encourage the desired change.

This strategic planning session focused on two distinct injury problems identified by Alaska Trauma Registry data: All terrain vehicle injuries for Alaskan children age 14 and under; Elder fall injuries to Alaskans age 70 and older. They were chosen because of the high rates, severity, and poor outcomes of these injuries, as well as no measured improvement over the past decade.

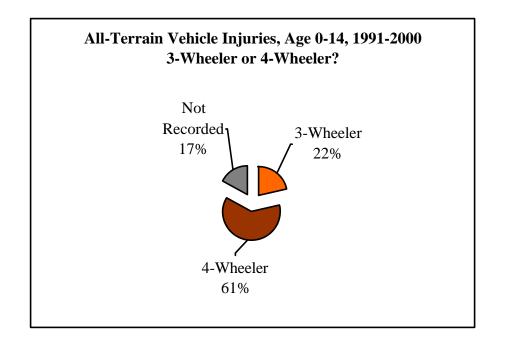
A presentation was made to the whole group summarizing trauma registry data on the two injury problems. Four groups were chosen to perform force field analysis on the two injury problems and identify interventions. The two groups addressing each of the two topics were combined to identify three or fewer priority interventions using the Injury Prevention Decision Matrix (Carolyn Fowler, Johns Hopkins Center for Injury Research and Policy).

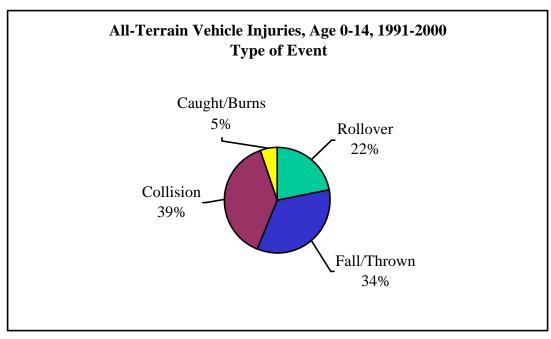
All-Terrain Vehicle Injury Data from the Alaska Trauma Registry



All Terrain Vehicle Injuries, Age 0-14, 1991-2000, Ranked by Regional Numbers		
<u>Region</u>	Reported Cases	
Yukon-Kuskokwim	44	
Anchorage	30	
Matanuska-Susitna	30	
Norton Sound	29	
Bristol Bay	29	
Kenai Peninsula	27	
Fairbanks North Star Borough	23	
Northwest Arctic	22	
Rural Interior	14	
North Slope	14	
Kodiak Island	9	
Valdez-Cordova/Copper River	9	
Southeast Alaska	8	
Aleutian/Pribilof	4	

All Terrain Vehicle Injuries, Age 0-14, 1991-2000, Ranked by Regional Rates		
Region	Rate per 100,000	
Bristol Bay	118	
Norton Sound	96	
Northwest Arctic	87	
North Slope	58	
Yukon-Kuskokwim	54	
Valdez-Cordova/Copper River	35	
Rural Interior	34	
Kenai Peninsula	23	
Kodiak Island	23	
Matanuska-Susitna	22	
Fairbanks North Star Borough	10	
Anchorage	5	
Southeast Alaska	5	





Collision	114		Collision w/ Object 18
w/ Car/truck w/ other ATV w/ Object w/ Ped,bike,s Not recorded	18		Trees, uneven ground, stumps, stakes, poles, garbage can, house, oil drum, sawhorse, ravine, fence
Fall/Thrown	102		
Age 0-5 Age 6-14	12 Falls 31 Falls	6 Thrown 53 Thrown	

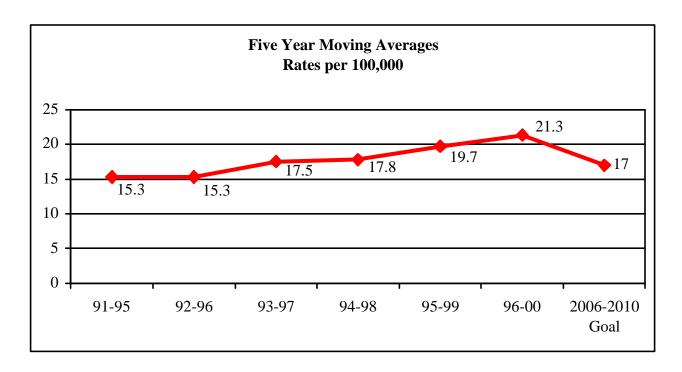
All-Terrain Vehicle Injuries, Age 0-14, 1991-2000

Odds Ratio = 4.3

In other words, un-helmeted ATV riders injured in a crash were over four times as likely to suffer a head injury than helmeted riders.

Helmet Use and Head Injury

	Head Injury (56)	No Head Injury
Helmet (46)	7	40
No Helmet (113)	49	65



Force Field Analysis: All-Terrain Vehicle Injuries, Age 0-14

	Driving	Restraining
Engineering	Helmets: more available, lower	Helmets: not available enough, not sized
	cost, better appearance and	for multiple wearers (passengers/other
	function (+3)	owners/riders), not functional enough (freeze/fog/etc) (-4)
	Protective Gear: more available,	
	lower cost, better function (+1)	Lack of safety harness/roll bar/etc safety systems (-4)
	Progress in equipment	
	modifications (+2)	
Enforcement	Village ordinances in some	Non-support for legislation/licensing, etc (-
	places (+1)	3)
	Slow zones in some places (+4)	Lack of laws, enforcement of speed, helmets, etc
Education	Education is available: "Stupid	Lack of training, good programs, good
	Hurts" (Honda), ATV rodeos,	instructors, etc. (-3)
	etc. (+1)	
		Manufacturer recommendation of no riders
	PSAs to promote parental	under 16 yoa inhibits training of that
	involvement, knowledge,	population. Age of actual riders vs. age of
	attitudes, etc. (+1)	education. (-2)

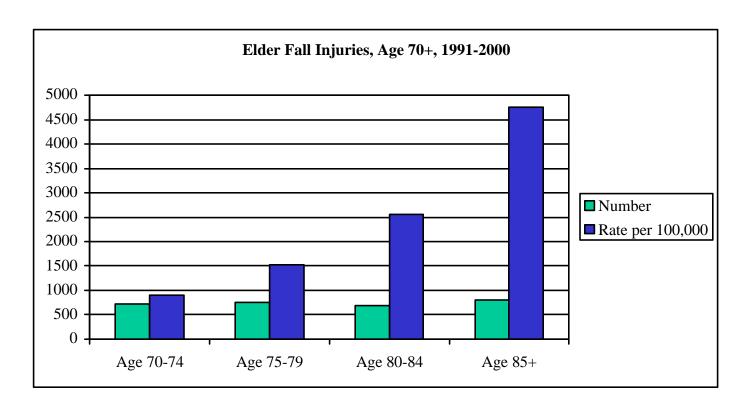
	Manufacturer recommendations of no riders under 16 yoa (+2)	Perception of ATVs as toy vs tool (-3)
	Perception of ATVs as toy vs tool (+3)	
Environment (Social)	Media portrayal of ATVs (+1) Data to work with for IP efforts (+1)	Media portrayal of ATVs (entertainment usage, lack of safety gear in video footage, etc) (-2)
	Effective IP network in place (+2)	Lack of role modeling by law enforcement, peers, medical personnel, parents, etc. (-3)
		Community acceptance of fatalities (-4)
		Entertainment use acceptable – ATVs used as babysitting device (-4)
		Lack of safe alternative activities (-4)
		Lack of parental supervision – ATVs not seen as a threat/danger (-4)
Environment (Physical)	Perfect vehicle for rough Alaska environment (+3)	Nature of the vehicle is to operate in marginal environments (+3)
		Lack of transportation alternatives (-3)
		Lack of safe ATV paths – corners, rough ground, etc. (-4)
		Hazards: weather, ice, water, mud (-2)
Economic	ATVs are affordable (+3)	ATVs are affordable (-3)
	Hospital costs can help drive injury prevention efforts (+2)	Limited funding for IP efforts (-3)
	many prevention official (+2)	Hospital costs divert funds from IP efforts (-2)
		ATVs "never leave a village" – used, rebuilt, and run forever (including 3-wheelers) (-2)

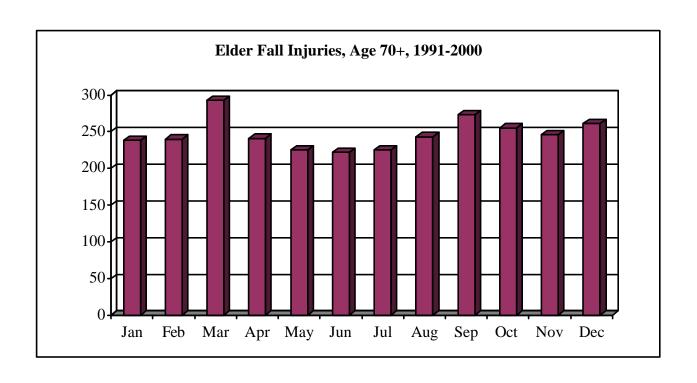
Intervention Ideas:

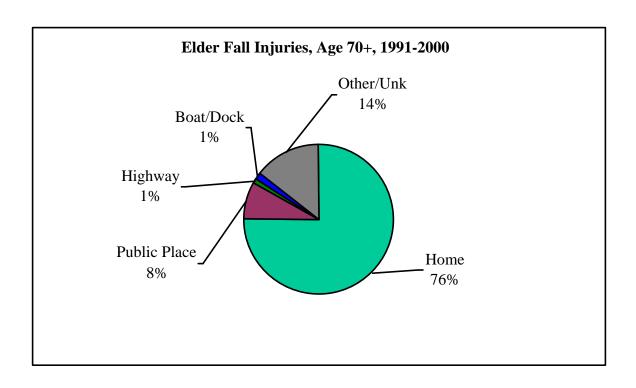
- 1. Model legislation task force: Review existing legislation and evaluate, as well as make available for other communities to implement in their area.
- 2. Model programs:
 - a. Educate role models, parents, peers, make certified courses, etc.
 - b. PSA and media projects
 - c. Victim advocacy for ATV IP efforts
- 3. Helmet availability efforts: Grants to provide helmets at lower cost in communities.
- 4. Governor/speed keys: Color-coded keys so that parents/drivers can issue "limited speed" keys to youth (already in use in some types of scooters).

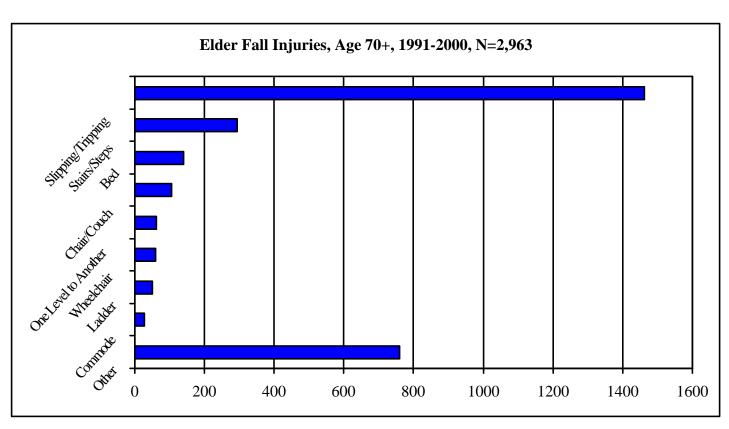
^{**} The group decided that #1 and 2 could be wrapped together (include #1 as "d" under idea #2).

Elder Fall Injury Data from the Alaska Trauma Registry

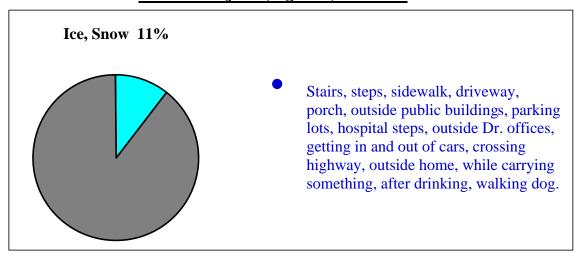




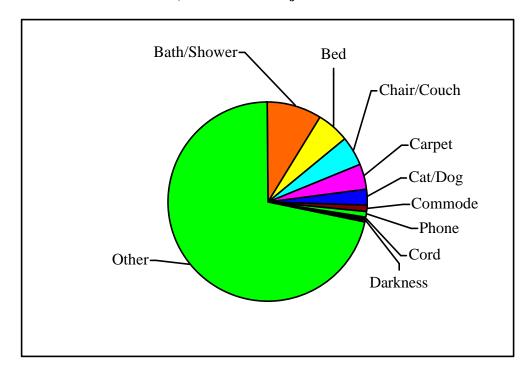




Elder Fall Injuries, Age 70+, 1991-2000



27% of the 2,209 home fall injuries shown below

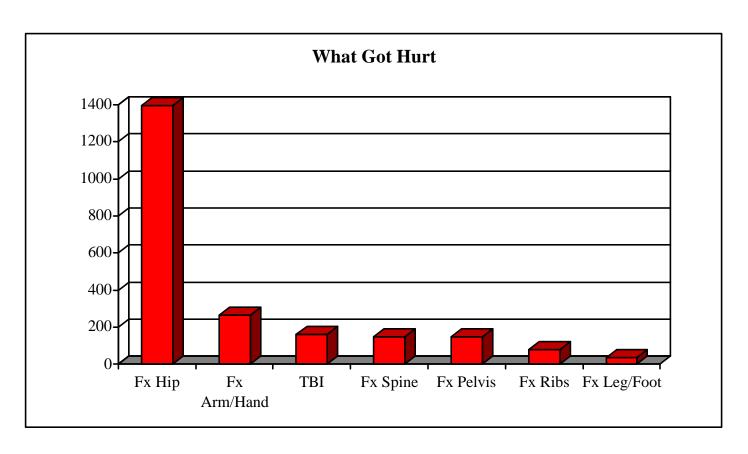


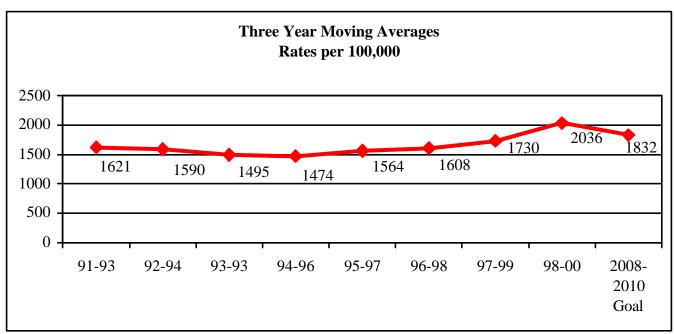
Contributing Factors

- -Suspected alcohol use 5.3%
- -Other medical conditions 22%

Dizzy, Fainting, Dementia, Stroke, Walker, Crutches, Wheelchair, Poor Vision, Cancer, Parkinson's, Heart Disease, COPD, Sick.

-Resident of Nursing Home/Assisted Living





Force Field Analysis: Elder Fall Injuries

	Driving Forces	Restraining Forces
Engineering	Safety products more available (+3)	Lack of maneuverability of
	Safer footwear (+3)	assistive devices (+1)
	Better assistive devices (+3)	
Enforcement	Building codes (+1)	
Education	More information available via internet (+2) CDC's published best practices (+1) Physical therapists trained in elder physiology (+1) More research (+2) Increased involvement of Tribal Health and other agencies (+2) Co-habitation of elders in group home	Lack of public awareness (+3) Lack of detailed data (+2) Lack of current data (+2) Inaccurate data (+2) Inadequate instructions on use of assistive devices (+3) Lack of organized outreach and quality control (+3) Lack of awareness about safe
	settings provides "captured" audience for education (+1) Increasingly better data (+2) Home safety checklists (+2)	footwear (+3)
Environment	Public awareness of safety products (+2)	Elder discrimination (+2)
(Social)	More community-based outreach (+2)	Isolation of elders (+3)
	Availability of exercise programs (+2)	Public attitude toward elderly
	Personal motivation is high (+3) Increasing size of elder population	(+1) Ugliness of hip protectors (+2)
	increases clout (+3)	Elder perception of aging (+2)
	Population easily marketed to (+3)	Negative connotations to being
	Volunteerism high (+2)	elderly (+2)
	Fear of losing independence (+3)	Lack of elder involvement in
	Tear of foshig independence (+3)	injury prevention planning (+2)
		Increased life span (+2)
		Inflexible to change (+3)
Environment	Architecture of homes (+1)	Population at risk with pre-
(Physical)	Global warming (0)	existing conditions (+3)
	Home visits increasing as healthcare tool	Population with increased
	(+2)	medications (+3)
	Improved EMS (+2)	Alcohol abuse (+2)
	Better nutrition (+1)	Risk increases with increasing
	Increased physical fitness of elders (+2)	age (+2)
Economic	Potential savings is huge (+1)	Fiscal crisis (+3)
20011011110	2 3 3 3 4 4 5 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Financial constraints (+2)
L		I maneral constraints (12)

Intervention Ideas:

- 1. Market home safety devices for whole population. Effectiveness (2); Feasibility (3); Cost (-3); Sustainability (3); Political Acceptability (3); Social and Political Will (3); Unintended Consequences (-1); Total (10)
- 2. Improve Data, more detail on how falls occurring.

 Effectiveness (3); Feasibility (1); Cost (-3); Sustainability (2); Political Acceptability (2);

 Social and Political Will (2); Unintended Consequences (-1); Total (6)
- 3. "TIPP"-like anticipatory guidance counseling sheets targeted to elders for physicians who treat elders.
 - Effectiveness (2); Feasibility (1); Cost (-3); Sustainability (2); Political Acceptability (3); Social and Political Will (2); Unintended Consequences (-1); Total (6)